

Claims

1. A device for delivering a medicament or a diagnostic agent to the skin or mu-
cosa of an animal, said device comprising
- 5 at least one rod house and at least one separate chamber house, wherein said
chamber house is capable of being connected to the rod house,
- wherein the rod house comprises at least one housing, said at least one housing
10 having a distal end and a proximal end, and at least one rod, said rod having a
distal end and at least one proximal end, and said rod being slidably arranged in
the housing, said rod being capable of being activated by being pushed towards
the proximal end of the housing, and
- 15 wherein the chamber house comprises at least one chamber, a first wall of said
chamber being a first sealing and a second wall of said chamber being a second
sealing, said first sealing and said second sealing being arranged so that an axis
through said chamber may intersect both sealings, and said chamber comprising
said medicament or said diagnostic agent.
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2. The device according to claim 1, wherein the rod is a longitudinal rod arranged
axially in the rod house.
3. The device according to claim 1 or 2, wherein the rod house is sealed by a re-
25 movable rod house sealing in the proximal end.
4. The device according to any of the preceding claims, wherein the distal end of
the rod is projecting out of the distal end of the rod house.
- 30 5. The device according to any of the preceding claims, wherein the proximal end
of the rod is a needle having a tapering end.
6. The device according to any of the preceding claims, wherein the needle com-
prises at least one recess in the tapering portion of the needle, such as at least

two recesses in the tapering portion of the needle, such as at least four recesses in the tapering portion of the needle,

- 5 7. The device according to any of the preceding claims, wherein the chamber house is connected to the rod house so that the proximal end of the rod penetrates the first sealing and the second sealing when slid proximally.
- 10 8. The device according to any of the preceding claims, wherein at least one marking means is arranged in the rod house to mark that the rod has been activated.
- 15 9. The device according to any of the preceding claims, wherein the at least one marking means is a marker projecting from the distal end of the housing and said marking means is activated when the rod is activated.
- 20 10. The device according to any of the preceding claims, wherein the at least one marking means is a marker being arranged concentrically around at least a part of the distal end of the rod.
- 25 11. The device according to any of the preceding claims, wherein the marking means is coloured in a colour different from the colour of the distal end of the rod.
- 30 12. The device according to any of the preceding claims, wherein the housing comprises means for engaging the marker means when the marker means is activated.
13. The device according to any of the preceding claims, wherein means for retracting the rod after activation is arranged in the housing.
14. The device according to any of the preceding claims, wherein the means for retracting the rod is a spring.

15. The device according to any of the preceding claims, wherein the housing comprises stopper means for stopping advance of the rod at a predetermined position during activation.
- 5 16. The device according to claim 15, wherein the rod has a shoulder and the stopper means is a shoulder in the housing dimensioned to engage the shoulder on the rod.
- 10 17. The device according to any of the preceding claims, wherein the chamber house has means for being attached to the rod house.
18. The device according to any of the preceding claims, wherein the second sealing is releasably attached to the chamber house.
- 15 19. The device according to any of the preceding claims, wherein the chamber house is made from a plastic material.
- 20 20. The device according to any of the preceding claims, wherein the chamber house is made from a resilient material.
21. The device according to any of the preceding claims, wherein the chamber house is attachable to the rod house by means of a thread or snap fit lock.
- 25 22. The device according to any of the preceding claims, wherein the rod has at least two proximal ends, such as at least three proximal ends.
23. The device according to any of the preceding claims, wherein the rod house comprises at least two rods, such as at least three rods.
- 30 24. The device according to claim 23, wherein the rods are connected at their distal ends to a common activation means.
25. The device according to any of the preceding claims, wherein the device comprises at least two chamber houses, such as at least three chamber houses.

26. The device according to claim 25, wherein at least two chamber houses are connected.

27. The device according to any of the preceding claims, wherein the device is provided with a labelling means, so that the skin or the mucosa of said animal is labelled when the medicament or diagnostic agent is delivered to the animal.

28. The device according to any of the preceding claims, wherein the labelling means is arranged on the chamber house.

29. The device according to any of the preceding claims, wherein the at least one chamber is filled at least partly with medicament or diagnostic agent.

30. A method for delivering a sufficient amount of medicament or diagnostic agent to an animal in need thereof, comprising

- arranging a device as defined in any of the claims 1-29, wherein the chamber house comprising the medicament or diagnostic agent is connected to the rod house, adjacent the skin or mucosa of said animal,
- activating the rod of the device, thereby delivering said medicament or diagnostic agent to said animal.

31. The method according to claim 30, wherein the chamber house comprises an allergen or combination of allergens.

32. A chamber house for being connected to a rod house as defined in any of claims 1-29, wherein the chamber house comprises a chamber, a first wall of said chamber being a first sealing and a second wall of said chamber being a second sealing, said first sealing and said second sealing being arranged so that an axis through said chamber may intersect both sealings, and said chamber comprising a medicament or a diagnostic agent.

33. The chamber house according to claim 32, wherein the chamber is at least partly filled with an allergen or a combination of allergens.

34. A rod house comprising at least one housing, said at least one housing having a distal end and a proximal end, and at least one rod, said rod having a distal end and at least one proximal end, and said rod being slidably arranged in the housing, said rod being capable of being activated by being pushed towards the proximal end of the housing, and said rod house being capable of being connected to a chamber house as defined in any of the claims 1-29.

35. A device for delivering a medicament or a diagnostic agent to the skin or mucosa of an animal, said device comprising

at least one rod house and at least one chamber house,

wherein the rod house comprises at least one housing, said at least one housing having a distal end and a proximal end, and at least one rod, said rod having a distal end and at least one proximal end, and said rod being slidably arranged in the housing, said rod being capable of being activated by being pushed towards the proximal end of the housing,

wherein the chamber house comprises at least one chamber, a first wall of said chamber being a first sealing and a second wall of said chamber being a second sealing, said first sealing and said second sealing being arranged so that an axis through said chamber may intersect both sealings, and said chamber comprising said medicament or said diagnostic agent, and

wherein the chamber house is provided with a labelling means for transferring a label to the animal being tested.

36. The device according to claim 35, wherein the device has one or more of the features of claims 1-29.